

ADDITIONS TO THE CATALOG OF OHIO VASCULAR PLANTS FOR 1923.*

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The past year has been one of unusual activity in the study of the Ohio flora and many important additions have been made to the State Herbarium. A. D. Selby, of the Ohio Experiment Station at Wooster, presented a fine collection of willows—91 sheets of specimens from other states and 67 sheets of Ohio species. Those which extend our knowledge of the distribution in the state are listed below. Charles C. Deam, state forester of Indiana, looked over the species of *Vitis*. A. R. Harper and Edw. S. Thomas, of Columbus; Katie M. Roads, of Hillsboro; E. Lucy Braun, of Cincinnati, and others have made important contributions.

All the specimens of the genus *Carex* were studied by Kenneth K. Mackenzie, the sedge specialist. The determinations of the species of this difficult genus are, therefore, as accurate as it is possible to make them. A complete revision of the *Carex* list is given below with the distribution as indicated by the herbarium specimens. The numbers correspond to the original list as given in the Catalog and are in the correct phyletic sequence. This list will now be a new starting point for the study of Ohio sedges. There are, no doubt, many species not yet listed, especially in the bogs and swamps of the north-eastern part of the state.

11. Change name to *Polypodium virginianum* L. Virginia Polypody. According to the studies of M. L. Fernald, our species in the eastern United States is distinct from the European *P. vulgare* L. and was so recognized by Linnaeus.
58. *Lycopodium lucidulum* Mx. Shining Clubmoss. In Cedar Swamp, near Urbana, Champaign Co. Robert B. Gordon.
68. *Pinus strobus* L. White Pine. Pine creek and Mohican river, Hanover Twp., Ashland Co. "Probably extends into Worthington Twp., Richland Co." Mrs. Bayard Taylor.

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- 71. *Pinus echinata* Mill. Short-leaf yellow Pine. "Collected west of Sugar Grove, in pine tract. Several trees noted." Fairfield Co. G. G. Hedgcock. The writer has looked for this species at Sugar Grove several times in the past, but evidently missed the right place.
- 76. *Taxus canadensis* Marsh. American Yew. Paint Twp., Highland Co. August E. Miller.
- 80. *Sagittaria rigida* Pursh. Sessile-fruited Arrow-head. East of Newark, Licking Co. Robert B. Gordon.
- 134. *Wolffia punctata* Griseb. Punctate Wolffia. In pond. Jackson Twp., Franklin Co. John H. Schaffner.

REVISED LIST OF THE SPECIES OF CAREX.

- 182, 183. Stet.
- 184. Fairfield, Ottawa, and Wayne counties.
- 185. General, but no specimens from the southwestern part of the state.
- 185.1. *Carex convoluta* Mackenzie. General.
- 185.2. *Carex radiata* (Wahl.) Dew. Radiate Sedge. Erie, Geauga.
- 186, 188, 189, 191, 193. Stet.
- 187. Lucas, Erie, Summit.
- 187.1. *Carex plana* Mackenzie. Reported by Mackenzie in November, 1923, Bull. Torr. Bot. Club. Specimens in Gray Herbarium, Harvard University. Collected by Moseley on Catawba Island, Ottawa Co.
- 188.1. *Carex leavenworthii* Dew. Leavenworth's Sedge. Ottawa, Hardin.
- 190. Cuyahoga Co. only.
- 191.1. *Carex aggregata* Mackenzie. Glomerate Sedge. Licking Co.
- 192. Rather general, but no specimens from eastern or southern counties.
- 193.1. *Carex annectens* Bickn. Yellow-fruited Sedge. Cuyahoga, Erie.
- 193.2. *Carex brachyglossa* Mackenzie. Reported by Mackenzie in November, 1923, Bull. Torr. Bot. Club. Specimens in Gray Herbarium, Harvard University. Collected by Moseley, Oxford, Erie Co.
- 194. No specimens. The specimen so named is *C. annectans* Bickn.
- 195. Lake, Summit.
- 196. Erie Co.
- 197, 201, 202. Stet.
- 198. From Tuscarawas, Franklin and Champaign Cos. northward.
- 198.1. *Carex laevi-vaginata* (Kuekenh). Mack. Butler, Franklin, Delaware, Madison, Hocking, Licking, Stark.

- 199. Defiance, Auglaize.
- 200. No specimens.
- 203. Logan, Lake.
- 204. No specimens. The specimen so named is *Carex bromoides* Schk.
- 205. Lake, Cuyahoga, Erie, Hancock, Hardin, Auglaize.
- 206. Erie County.
- 206.1. *Carex sterilis* Willd. Erie, Madison.
- 206.2. *Carex howei* Mackenzie. Howe's Sedge. Stark, Wayne, Summit, Perry, Licking.
- 207. Change name to *Carex cephalantha* (Bail.) Bickn. Little Prickly Sedge. Portage, Lake.
- 207.1. *Carex incompta* Bickn. Prickly Bog Sedge. Geauga County.
- 207.2. *Carex seorsa* E. C. Howe. Cuyahoga Co.
- 208. Northern Ohio, as far south as Carroll. Tuscarawas, Knox, and Williams Counties.
- 209, 210, 211. Stet.
- 212. Lorain county only.
- 213. Change name to *Carex tenera* Dew. Lake, Lucas, Williams.
- 213a. Unpublished varietal name. Will be supplied later.
- 214. General, but no specimens from the southeastern counties.
- 214.1. *Carex brevior* (Dew.) Mack. Lake, Logan, Erie, Madison, Hamilton.
- 215. Tuscarawas, Cuyahoga.
- 215.1. Unpublished species. Will be supplied later.
- 216, 219, 220, 222, 223, 225. Stet.
- 216.1. *Carex merritt-fernaldi* Mackenzie. Lake county.
- 216.2. *Carex suberecta* (Olney) Britt. Prairie Straw Sedge. Auglaize, Champaign.
- 217. Stark, Summit, Cuyahoga.
- 218. Omit from the list.
- 221. General, but no specimens from the south-eastern counties.
- 224. General in distribution.
- 226. From Erie, Madison, and Hamilton Counties eastward.
- 227. From Lake, Tuscarawas, Franklin, and Warren Counties northwestward.
- 228, 229, 230. Stet.
- 231. No specimens.
- 232. No specimens.
- 233. Lake and Erie Counties.
- 233.1 *Carex woodii* Dew. (*C. colorata* Mackenzie) Wood's Sedge. Huron, Auglaize, Erie, Cuyahoga, Geauga.

- 234. Cuyahoga, Summit, Lorain, Huron, Fairfield, Clarke.
- 235. Lorain, Franklin, Vinton.
- 236. From Cuyahoga, Delaware, and Hocking counties eastward.
- 237. Lake, Cuyahoga, Erie, Lawrence.
- 238, 239, 242. Stet.
- 240. General in distribution.
- 241. Change name to *Carex gracilescens* Steud. Rather general.
- 242.1. *Carex striatula* Mx. Striate Sedge. Lawrence county.
- 243. Lake and Defiance counties.
- 244, 245, 248. Stet.
- 246. Hamilton, Montgomery, Green, Ross, Franklin, Licking, Tuscarawas.
- 247. Hamilton, Butler, Highland, Auglaize, Lake.
- 249. No specimens; all so reported are *C. grisea* Wahl.
- 250, 253, 255, 256. Stet.
- 251. Williams, Cuyahoga.
- 252. Northern Ohio, as far south as Hocking County.
- 254. *Carex davisii* Schw. & Torr. Davis' Sedge. Lake, Lorain, Auglaize, Licking, Ross, Hamilton.
- 256.1. *Carex swanii* (Fern.) Mack. Northern Ohio, as far south as Auglaize, Madison, and Summit counties.
- 257. Lake, Cuyahoga, Knox, Licking, Fairfield, Hocking, Lawrence.
- 258. Change name to *Carex hirsutella* Mackenzie. Hirsute Sedge. General.
- 258.1. *Carex caroliniana* Schw. Carolina Sedge. Tuscarawas County.
- 259, 262, 263, 265. Stet.
- 260. Licking and Ashtabula counties.
- 261. No specimens. The specimen so reported is *C. limosa* L.
- 264. Change name to *Carex strictior* Dew. Tussock Sedge. Campaign, Madison, Marion, Lake, Erie, Lucas, Defiance, Auglaize.
- 266. Cuyahoga, Erie, Knox, Franklin, Hocking.
- 267. Change name to *Carex aquatilis substricta* Kuekenh. Water Sedge. Auglaize, Lucas.
- 267.1. *Carex emoryi* Dew. Emory's Sedge. Lake, Cuyahoga, Trumbull, Hardin, Delaware, Hamilton.
- 268. Harrison county.
- 269, 272, 273, 274, 275. Stet.
- 270. Lake, Cuyahoga, Summit.
- 271. Erie, Morrow, Logan, Hardin, Seneca, Hancock, Lucas, Auglaize, Defiance.
- 276. Change name to *Carex irregularis* Schw. Erie County.
- 277. No specimens.

- 277.1. *Carex cryptolepis* Mackenzie. Lake County.
278. Portage County.
279. No specimens.
280. *Carex vesicaria* L. Inflated Sedge. Lake, Cuyahoga, Wayne, Lucas.
281. Lake, Geauga, Licking.
282, 283, 284, 285, 286. Stet.
287. No specimens. All so reported are other species.
288, 290, 291, 292, 293. Stet.
289. General in distribution.
293.1. *Carex macounii* Dew. Macoun's Sedge. Lorain County.
294. General in distribution.
295. Warren, Marion, Crawford, Wayne.
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- 321.1. *Uniola latifolia* Mx. Broadleaf Spike-grass. "On ledge along Little Scioto River." Scioto County. A. R. Harper.
384. *Sporobolus vaginæflorus* (Torr.) Wood. Sheathed Rush-grass. "On dry hills." Washington Twp., Highland County. Katie M. Roads.
410. *Aristida dichotoma* Mx. Poverty-grass. "Common in sterile field." Washington Twp., Highland County. Katie M. Roads.
412. *Aristida gracilis* Ell. Slender Triple-awned-grass. Mt. Oreb, Brown County. Unusually tall form in "disturbed ground, 'white clay.'" E. Lucy Braun.
465. *Holcus halapense* L. Johnson-grass. Fairfield County. A. R. Harper.
466. *Holcus sorghum* L. A variety of Broomcorn. In waste lot. Hillsboro, Highland County. "A common volunteer in Liberty and Penn Twps., Highland County." Katie M. Roads.
468. *Miscanthus sinensis* Anderss. Chinese Plume-grass. In vacant lot near Hillsboro, Highland County. Katie M. Roads.
469.1. *Andropogon elliottii* Chapm. Elliott's Beard-grass. "Common in the pine forest on hills, mixed with *Andropogon scoparius* Mx." Sugar Grove, Fairfield County. E. N. Transeau.
470. *Andropogon virginicus* L. Virginia Beard-grass. A single plant along road south of Canal Winchester, Madison Twp., Franklin County. Abundant on hills, especially in pastures and old orchards in Bloom Twp., Fairfield County. John H. Schaffner. Also Hillsboro, Highland County. Katie M. Roads.
499. *Chamælirium luteum* (L.) Gr. Chamælirium. Old Man's Cave, near South Bloomingville, Hocking County. Mrs. Bayard Taylor.

504. *Trillium declinatum* (Gr.) Gleason. Drooping Trillium. Delaware County. Robert B. Gordon.
539. *Juncus bufonis* L. Toad Rush. Eastwood, Brown County. "Cleared land," on "white clay." E. Lucy Braun.
549. *Juncus canadensis* J. Gay. Canada Rush. In swamp near Hillsboro, Highland County. Katie M. Roads.
555. *Manfreda virginica* (L.) Salisb. False Aloe. "Found general on limestone ledges with shallow soil." Adams County. A. R. Harper.
559. *Gemmingia chinensis* (L.) Ktz. Blackberry-lily. At base of limestone cliffs near Blue Creek Post Office, Adams County. A. R. Harper.
560. *Crocus vernus* L. Spring Crocus. "Escaped to waste places. Hillsboro, Highland County. Katie M. Roads.
580. *Blephariglossis peramoena* (Gr.) Rydb. Fringeless Purple Orchis. "Collected by Mr. and Mrs. Percy C. Roads in a damp woods." Union Twp., Highland County. Katie M. Roads.
583. *Triphora trianthophora* (Sw.) Rydb. Nodding Triphora. Sugar Grove, Fairfield County. Robert B. Gordon.
600. *Corallorrhiza maculata* Raf. Large Coral-root. "In thicket along road, near Blue Creek P. O.," Adams County. Arthur R. Harper.
- 619.1. *Ranunculus pucillus* Poir. Dwarf Crowfoot. Goshen Station, Clermont County. "In shallow pools." E. Lucy Braun.
696. *Radicula sylvestris* (L.) Druce. Creeping Yellow-cress. "On the bank of a small stream." A rare plant along most of our small streams." Hillsboro, Highland County. Katie M. Roads.
712. *Norta altissima* (L.) Britt. Tall Hedge-mustard. In waste ground. Columbus, Franklin County. John H. Schaffner.
755. *Cleome spinosa* L. Spider-flower. A considerable patch developed in a waste place. Columbus, Franklin Co. John H. Schaffner.
- 760.1. *Geranium dissectum* L. Cut-leaf, Crane's-bill. University of Cincinnati Campus, Cincinnati, Hamilton County. "Weed in fill." E. Lucy Braun.
- 774.1. *Linum striatum* Walt. Ridged Flax. Kluck's Crossing, Clinton County. "Meadow, 'white clay' area." E. Lucy Braun.
- 785.1. *Polygala incarnata* L. Pink Milkwort. Buena Vista, Scioto County. Arthur R. Harper.
816. *Callitriche heterophylla* Pursh. Goshen Station, Clermont County. "Shallow ponds." E. Lucy Braun.
- 828.1. *Hibiscus syriaca* L. Shrubby Hibiscus. Propagates itself readily from seed in Columbus, Franklin County. John H. Schaffner.

854. *Lechea minor* L. Thyme-leaf Pinweed. Butler Springs, Highland County. "Dry south slopes, oak-sumach." E. Lucy Braun.
966. *Salsola pestifer* Nels. Russian-thistle. Quite frequent in waste places. Columbus, Franklin Co. John H. Schaffner.
992. *Persicaria orientalis* (L.) Spach. Prince's-feather. "Occasional in waste places and pastures." Hillsboro, Highland County. Katie M. Roads.
1024. *Rubus hispidus* L. Hispid Dewberry. Kluck's Crossing, Clinton County. "Pin oak woods, openings." E. Lucy Braun.
1097. *Cassia medsgeri* Shaf. Medsger's Senna. Near Mt. Oreb, Brown County. "In shrub meadow, depression in 'white clay.'" E. Lucy Braun.
1112. *Trifolium agrarium* L. Yellow Hop Clover. Near Newark, Licking County. Robert B. Gordon.
1116. *Trifolium arvense* L. Rabbit-foot Clover. Licking County. Robert B. Gordon.
1125. *Psoralea pedunculata* (Mill.) Vail. Long-peduncled Psoralea. "Collected at Stony Creek, State Forest, Ross County. A. E. Miller.
1149. *Meibomia marylandica* (L.) Ktz. Maryland Tick-trefoil. "Dry hillsides near Peebles," Adams County. A. R. Harper and Edw. S. Thomas.
- 1161.1. *Vicia villosa* Roth. Hairy Vetch. Escaped from cultivation. Ohio State University farm, Columbus, Franklin County. Robert B. Gordon.
- 1173.1. *Clitoria mariana* L. Butterfly Pea. "On edge of pine woods." Roosevelt Preserve, Scioto County. Arthur R. Harper.
1182. *Sedum telephioides* Mx. American Orpine. "Crevices of a steep cliff." Hillsboro, Highland County. Katie M. Roads.
- 1210.1. *Vitis cinerea* Engelm. Ashy Grape. Sardinia, Brown County; Arion, Scioto County. Collected in 1900 by W. A. Kellerman. Determined by Chas. C. Deam.
1253. *Humulus japonicus* S. & Z. Japanese Hop. Persistent after cultivation. Columbus, Franklin Co. John H. Schaffner.
- 1305.a. *Salix nigra amygdaloides*. Columbus, Franklin County. Collector, R. F. Griggs. A. D. Selby.
1312. *Salix glaucophylla* Bebb. Broadleaf Willow. Cedar Point, Erie County. A. D. Selby.
1315. *Salix candida* Fl. Hoary willow. Border of bog, Hartville, Stark County. A. D. Selby.
1320. *Salix humilis* Marsh. Prairie Willow. Georgesville, Franklin County; Neapolis, Lucas County. A. D. Selby.
- 1346.1. *Kneiffia longipedicellata* Small. Long-pedicelled Sundrops. Midland, Clinton County. "Meadows." E. Lucy Braun.

1385. *Pyrola americana* Sw. Round-leaf Wintergreen. Near Newark, Licking County. Robert B. Gordon.
1392. *Hypopitys lanuginosa* (Mx.) Nutt. Hairy Pinesap. Collected in "The Gulf." Hocking County. A. R. Harper. Also "Red Hills," Delaware County. R. B. Gordon and Irvine Wolfe.
1405. *Polycodium stamineum* (L.) Greene. Deerberry. "In pin oak woods," between White Oak and Mt. Oreb, Brown County. E. Lucy Braun.
- 1432.1. *Convolvulus fraterniflorus* Mack. & Bush. Short-stalked Bindweed. "Sandbar along lower Scioto." Scioto County. A. R. Harper.
1480. *Acerates viridiflora* (Raf.) Eat. Green Milkweed. Pike Co. A. R. Harper.
1481. *Acerates floridana* (Lam.) Hitch. Florida Milkweed. "Along roadside and in waste fields." Waverly-Minford Pike, southeast portion of Pike County. Also along Blue Run Pike, Northeastern Scioto County. A. R. Harper.
1484. *Asclepias purpurascens* L. Purple Milkweed. Near Blue Creek P. O., Adams County. A. R. Harper.
1487. *Asclepias sullivantii* Engelm. Sullivant's Milkweed. Sinking Springs Cemetery, Adams County. A. R. Harper.
1493. *Asclepias verticillata* L. Whorled Milkweed. "Pretty general on marl and limestone." Adams County. A. R. Harper.
1497. *Petunia violacea* Lindl. Common Petunia. "Occasional in fields and waste places. Abundant as a persistent after cultivation." Hillsboro, Highland County. Katie M. Roads.
1498. *Nicotiana tabacum* L. Common Tobacco. Persistent after cultivation. Columbus, Franklin County. John H. Schaffner.
1499. *Datura metel* L. Entire-leaf Jimson-weed. Spontaneous after cultivation. Columbus, Franklin County. John H. Schaffner.
1500. *Datura stramonium* L. The smooth-fruited, white variety. Persistent after cultivation. Columbus, Franklin County. John H. Schaffner.
1502. *Physalodes physalodes* (L.) Britt. Apple-of-Peru. "Edge of cornfield along road near Piketon." Pike County. A. R. Harper.
1531. *Gratiola virginiana* L., (*Gratiola sphaerocarpa* Ell.) Round-fruited Hedge-hyssop. Goshen Station, Clermont County. "Margins of ponds and wet clay." E. Lucy Braun.
1533. *Ilysanthes attenuata* (Muhl.) Small. Short-stalked False-Pimpernell. Near Mt. Oreb, Brown County. "Wet places in pin oak woods and in clearings." E. Lucy Braun.
1557. *Agalinis paupercula* (Gr.) Britt. Small Purple Gerardia. "In swamp at Frankfort," Ross County. A. R. Harper.

1562. *Pedicularis lanceolata* Mx. Lanceleaf Lousewort. "Along stream near Steam Furnace." Adams County. A. R. Harper.
- 1598.a. *Myosotis virginica macrosperma* (Engelm.) Fern. Goshen Sta., Clermont county. "In mixed hydrophytic forest." E. Lucy Braun.
1612. *Verbena bracteosa* Mx. Bracted Vervain. "In cracks of sidewalk, river front." Portsmouth, Scioto County. A. R. Harper.
1615. *Isanthus brachiatus* (L.) B. S. P. False Pennyroyal. "In pasture lot." Hillsboro, Highland County. Katie M. Roads.
1624. *Scutellaria incana* Muhl. Downy Skullcap. Near Newark, Licking County. Robert B. Gordon.
1645. *Thymus serpyllum* L. Creeping Thyme. "This plant has been established in the Roads Cemetery, Paint Township, Highland County, for fifty years and every effort has failed to eradicate it." Katie M. Roads.
1672. *Laminum purpureum* L. Red Henbit. Ironton, Lawrence County. Lillian E. Humphrey. Also on Olentangy River bottom, Columbus, Franklin County. Olive R. Sands.
- 1713.1. *Anethum graveolens* L. Dill. Escaped from cultivation. Columbus, Franklin County. John H. Schaffner.
1719. *Oxyopolis rigidus* (L.) Raf. Cowbane. In swamp near Frankfort, Ross County. Also near Rarden, in Adams County. A. R. Harper and Edw. S. Thomas.
1786. *Triosteum angustifolium* L. Yellow Horse-gentian. On hill-sides, Hillsboro, Highland County. Katie M. Roads.
1817. *Lobelia puberula* Mx. Downy Lobelia. Near Mt. Oreb, Brown County. "Shrub-meadow depression in 'white clay' area." E. Lucy Braun.
- 1833.a. *Rudbeckia hirta* L. Black-eyed-Susan. Form with yellow disk. Cincinnati, Hamilton County. E. Lucy Braun.
1835. *Rudbeckia speciosa* Wend. Showy Cone-flower. "Dry hillside near Serpent Mound," Adams County. A. R. Harper and Edw. S. Thomas.
- 1835.a. *Rudbeckia speciosa sullivanti* (Boy. & Bead.) Rob. Hillsboro, Highland County. Katie M. Roads.
1843. *Helianthus maximiliani* Schrad. Maximilian's Sunflower. Dallas Bog, Champaign County, South of Urbana. Frank T. McFarland.
1863. *Coreopsis tinctoria* Nutt. Garden Tickseed. "In a waste lot." Hillsboro, Highland County. Katie M. Roads.
1867. *Bidens comosa* (Gr.) Wieg. Leafy-bracted Bur-marigold. "Common in swamps and wet places." Hillsboro, Highland County. Katie M. Roads.

1876. *Polymnia uvedalia* L. Yellow Leaf-cup. "On hillside between Serpent Mound and Locust Grove," Adams County. A. R. Harper. Also found near Georgesville, Franklin County, by A. R. Harper and Edw. S. Thomas.
- 1889.1. *Pluchea petiolata* Cass. Inland Marsh Fleabane. Near Mt. Oreb, Brown County. "Moist soil, pin oak, white woods, mostly cleared." E. Lucy Braun.
1906. *Solidago flexicaulis* L. Zig-zag Goldenrod. "Steep rocky hillside." Marshall Twp., Highland County. Katie M. Roads.
1923. *Solidago ohioensis* Ridd. Ohio Goldenrod. "In swamp on outskirts of Frankfort," Ross County. A. R. Harper and Edw. S. Thomas.
1978. *Kuhnia eupatorioides* L. False Boneset. "General on limestone waste places." Adams County. A. R. Harper and Edw. S. Thomas.
1979. *Lacinaria squarrosa* (L.) Hill. Scaly Blazing-star. "Stony hillsides in limestone section." Adams County. A. R. Harper.
1982. *Lacinaria scariosa* (L.) Hill. Large blazing-star. "In field along Waverly Pike, three miles south of Chillicothe," Ross County. Arthur R. Harper and Edward S. Thomas.
1988. *Elephantopus carolinianus* Willd. Carolina Elephant's-foot. "In grounds of Serpent Mound. General in locality." Adams County. A. R. Harper and Edw. S. Thomas.
- 2029.a. *Centaurea jacea lacera* Koch. Near Goshen, Clermont County. "In hay field." E Lucy Braun.
- 2029.1. *Centaurea vochinensis* Bernh. Tryol Star-thistle. Cantwell Cliff, Hocking County; also in West Jefferson, Madison County. Mrs. Bayard Taylor.
- 2035.2. *Picris hieracioides* L. Hawkweed Picris. Milford, Clermont County. "Weed in blue grass lawns and roadsides." E. Lucy Braun.
2058. *Hieracium gronovii* L. Gronovius' Hawkweed. Near Mt. Oreb, Brown County. "Drier pin oak woods, Rossmoyne silt loam soil." E. Lucy Braun.
2059. *Hieracium marianum* Willd. Maryland Hawkweed. Near Sardinia, Brown County. "Meadows." E. Lucy Braun.
2061. *Hieracium greenii* Port. & Britt. Green's Hawkweed. "On hillsides," Washington Twp., Highland County. Katie M. Roads.